

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) A system ~~(23)~~ that maintains synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the system ~~(23)~~ comprising:
 - a component ~~(34)~~ that determines at least one initial level of a buffer;
 - a component ~~(34)~~ that determines at least one current level of the buffer; and
 - a component ~~(34)~~ that determines an amount of drift by comparing the at least one initial level of the buffer to the at least one current level of the buffer and adjusts the clocks to maintain the initial midpoint level of the buffer if the amount of drift reaches a threshold level.
2. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the at least one initial level of the buffer comprises an initial midpoint level (Init Mid).
3. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the at least one initial level of the buffer comprises an initial minimum operating level (Init Min), an initial maximum operating level (Init Max), and an initial midpoint level (Init Mid).
4. (currently amended) The system ~~(23)~~ set forth in claim 3, wherein the initial midpoint level (Init Mid) is computed according to the following formula:
initial midpoint level (Init Mid) = (initial maximum operating level (Init Max) + initial minimum operating level (Init Min))/2.
5. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the at least one current level of the buffer comprises a current midpoint level (Cur Mid).

6. (currently amended) The system ~~(23)~~ set forth in claim 3, wherein the at least one current level of the buffer comprises a current minimum operating level (Cur Min), a current maximum operating level (Cur Max), and a current midpoint level (Cur Mid).

7. (currently amended) The system ~~(23)~~ set forth in claim 6, wherein the current midpoint level (Cur Mid) is calculated according to the following formula:

Operating Midpoint = current midpoint level (Cur Mid) = current minimum operating level (Cur Min) + initial midpoint level (Init Mid) - initial minimum operating level (Init Min).

8. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the audio signal ~~(31)~~ and the video signal ~~(29)~~ comprise a Motion Picture Experts Group (MPEG) signal.

9. (currently amended) The system ~~(23)~~ set forth in claim 1, wherein the system ~~(23)~~ comprises a portion of a television set.

10. (currently amended) The system ~~(23)~~ set forth in claim 9, wherein the television set comprises a High Definition Television (HDTV) set.

11. (currently amended) A system ~~(23)~~ that maintains synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the system ~~(23)~~ comprising:

means ~~(34)~~ for determining at least one initial level of a buffer;

means ~~(34)~~ for determining at least one current level of the buffer;

means ~~(34)~~ for determining an amount of drift by comparing the at least one initial level of the buffer to the at least one current level of the buffer; and

means ~~(34)~~ for adjusting the clocks to maintain the initial midpoint level of the buffer if the amount of drift reaches a threshold level.

12. (currently amended) The system ~~(23)~~-set forth in claim 11, wherein the at least one initial level of the buffer comprises an initial midpoint level (Init Mid).

13. (currently amended) The system ~~(23)~~-set forth in claim 11, wherein the at least one initial level of the buffer comprises an initial minimum operating level (Init Min), an initial maximum operating level (Init Max), and an initial midpoint level (Init Mid).

14. (currently amended) The system ~~(23)~~-set forth in claim 13, wherein the initial midpoint level (Init Mid) is computed according to the following formula:

initial midpoint level (Init Mid) = (initial maximum operating level (Init Max) + initial minimum operating level (Init Min))/2.

15. (currently amended) The system ~~(23)~~-set forth in claim 13, wherein the at least one current level of the buffer comprises a current midpoint level (Cur Mid).

16. (currently amended) The system ~~(23)~~-set forth in claim 13, wherein the at least one current level of the buffer comprises a current minimum operating level (Cur Min), a current maximum operating level (Cur Max), and a current midpoint level (Cur Mid).

17. (currently amended) The system ~~(23)~~-set forth in claim 16, wherein the current midpoint level (Cur Mid) is calculated according to the following formula:

Operating Midpoint = current midpoint level (Cur Mid) = current minimum operating level (Cur Min) + initial midpoint level (Init Mid) - initial minimum operating level (Init Min).

18. (currently amended) A method ~~(400)~~ of maintaining synchronization between a video signal ~~(29)~~ and an audio signal ~~(31)~~ that are processed using clocks that are locked, the method ~~(400)~~ comprising:

- determining ~~(404)~~ at least one initial level of a buffer;
- determining ~~(405)~~ at least one current level of the buffer; and
- determining ~~(406)~~ an amount of drift by comparing the at least one initial level of the buffer to the at least one current level of the buffer; and
- adjusting ~~(410)~~ the clocks to maintain the initial midpoint level of the buffer if the amount of drift reaches a threshold level.

19. (currently amended) The method ~~(400)~~ set forth in claim 18, comprising:

- defining the at least one initial level of the buffer to comprise an initial minimum operating level (Init Min), an initial maximum operating level (Init Max), and an initial midpoint level (Init Mid); and
- computing the initial midpoint level (Init Mid) according to the following formula: initial midpoint level (Init Mid) = (initial maximum operating level (Init Max) + initial minimum operating level (Init Min))/2.

20. (currently amended) The method ~~(400)~~ set forth in claim 19, comprising:

- defining the at least one current level of the buffer to comprise a current minimum operating level (Cur Min), a current maximum operating level (Cur Max), and a current midpoint level (Cur Mid); and
- computing the current midpoint level (Cur Mid) according to the following formula: Operating Midpoint = current midpoint level (Cur Mid) = current minimum operating level (Cur Min) + initial midpoint level (Init Mid) - initial minimum operating level (Init Min).